

RAW SEQUENCE LISTING

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Application Serial Number: 09/155,7080
Source: 1FW/6
Date Processed by STIC: 3/9/06

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IFW16

RAW SEQUENCE LISTING

DATE: 03/09/2006

PATENT APPLICATION: US/09/155,708D

TIME: 14:19:57

Input Set : A:\OPT003.APP

Output Set: N:\CRF4\03092006\I155708D.raw

3 <110> APPLICANT: FARRAR, GWENYTH JANE
4 HUMPHRIES, PETER
5 KENNA, PAUL
7 <120> TITLE OF INVENTION: GENETIC SUPPRESSION AND REPLACEMENT
9 <130> FILE REFERENCE: OPT-003
11 <140> CURRENT APPLICATION NUMBER: 09/155,708D
12 <141> CURRENT FILING DATE: 1999-04-05
14 <150> PRIOR APPLICATION NUMBER: PCT/GB97/00929
15 <151> PRIOR FILING DATE: 1997-04-02
17 <150> PRIOR APPLICATION NUMBER: GB 9606961.2
18 <151> PRIOR FILING DATE: 1996-04-02
20 <160> NUMBER OF SEQ ID NOS: 34
22 <170> SOFTWARE: PatentIn Ver. 3.3
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 617
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapiens
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30 <221> NAME/KEY: modified_base
31 <222> LOCATION: (7)..(7)
32 <223> OTHER INFORMATION: a, c, g, or t
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35 <221> NAME/KEY: modified_base
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50 <221> NAME/KEY: modified_base
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52 <223> OTHER INFORMATION: a, c, g, or t
54 <220> FEATURE:
55 <221> NAME/KEY: modified_base
56 <222> LOCATION: (79)..(79)
57 <223> OTHER INFORMATION: a, c, g, or t
59 <220> FEATURE:
60 <221> NAME/KEY: modified_base

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61 <222> LOCATION: (454)..(454)
62 <223> OTHER INFORMATION: a, c, g, or t
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72 <223> OTHER INFORMATION: a, c, g, or t
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75 <221> NAME/KEY: modified_base
76 <222> LOCATION: (542)..(542)
77 <223> OTHER INFORMATION: a, c, g, or t
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81 <222> LOCATION: (563)..(563)
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87 <223> OTHER INFORMATION: a, c, g, or t
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92 <223> OTHER INFORMATION: a, c, g, or t
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95 <221> NAME/KEY: modified_base
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97 <223> OTHER INFORMATION: a, c, g, or t
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106 <222> LOCATION: (597)..(597)
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112 gctgagctca ggccttcgca gcattcttgg gtgggagcag ccacgggtca gccacaaggg 180
113 ccacagccat gaatggcaca gaaggcccta acttctacgt gcccttctcc aatgcgacgg 240
114 gtgtggtacg cagcccttc gagtaccac agtactacct ggctgagcca tggcagttct 300
115 ccatgctggc cgcctacatg tttctgctga tcgtgctggg ctccccatc aacttctca 360
116 cgctctacgt caccgtccag cacaagaagc tgcgcacgcc tctcaactac atcctggctc 420
W--> 117 aacctagccg tggctgaact cttcatggtc ctangtggct tcaccagcac ctctacanct 480
W--> 118 ctctgcatgg atactcgtct tggggccac aggatgcaat tgganggctc tttgcacctg 540
W--> 119 gngggaaatt gcctgtggtc ctngtggctn ggncaccaac gtactggtn gtnntanccc 600

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Input Set : A:\OPT003.APP
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120 agaacaactc cgctccc 617
123 <210> SEQ ID NO: 2
124 <211> LENGTH: 639
125 <212> TYPE: DNA
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129 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
130 human rhodopsin hybrid cDNA
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163 <221> NAME/KEY: modified_base
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165 <223> OTHER INFORMATION: a, c, g, or t ✓
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180 <223> OTHER INFORMATION: a, c, g, or t
182 <220> FEATURE:

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Input Set : A:\OPT003.APP

Output Set: N:\CRF4\03092006\I155708D.raw

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195 <223> OTHER INFORMATION: a, c, g, or t
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202 <220> FEATURE:
203 <221> NAME/KEY: modified_base /
204 <222> LOCATION: (487)..(487) /
205 <223> OTHER INFORMATION: a, c, g, or t
207 <220> FEATURE:
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210 <223> OTHER INFORMATION: a, c, g, or t
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215 <223> OTHER INFORMATION: a, c, g, or t
217 <220> FEATURE:
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219 <222> LOCATION: (544)..(544) /
220 <223> OTHER INFORMATION: a, c, g, or t
222 <220> FEATURE:
223 <221> NAME/KEY: modified_base /
224 <222> LOCATION: (546)..(546) /
225 <223> OTHER INFORMATION: a, c, g, or t
227 <220> FEATURE:
228 <221> NAME/KEY: modified_base /
229 <222> LOCATION: (563)..(563) /
230 <223> OTHER INFORMATION: a, c, g, or t
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233 <221> NAME/KEY: modified_base /
234 <222> LOCATION: (569)..(569) /
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240 <223> OTHER INFORMATION: a, c, g, or t
242 <220> FEATURE:
243 <221> NAME/KEY: modified_base

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Input Set : A:\OPT003.APP

Output Set: N:\CRF4\03092006\I155708D.raw

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248 <221> NAME/KEY: modified_base
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250 <223> OTHER INFORMATION: a, c, g, or t
252 <220> FEATURE:
253 <221> NAME/KEY: modified_base
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255 <223> OTHER INFORMATION: a, c, g, or t
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259 <222> LOCATION: (620)..(621)
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264 <222> LOCATION: (623)..(623)
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269 <222> LOCATION: (626)..(626)
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273 <221> NAME/KEY: modified_base
274 <222> LOCATION: (628)..(628)
275 <223> OTHER INFORMATION: a, c, g, or t
277 <400> SEQUENCE: 2
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W--> 279 ctacgggtca gccacaagg ccacagccat gaatggcaca gaangcccta acttctacgt 120
      280 gcccttctcc aatgcgacgg gtgtggtacg cagccccttc gagtaccac agtactacct 180
      281 ggctgagcca tggcagttct ccatgctggc cgcctacatg tttctgctga tcgtgctggg 240
      282 ctcccccatc aacttctcga cgctctacgt gaccgtccag cacaagaagc tgcgcacgcc 300
W--> 283 tctcaactac atcctgctca acctanccgt ggntgaactc ttcattggtcc taggtggctt 360
W--> 284 caccancaac ctctanacct ctctgcatgg anacttcttc ttccggccca caggatgcaa 420
W--> 285 tttggaaggc ttcttttaac acccgggggg ggaaaattgc ctgtggtcct tgggtggctcg 480
W--> 286 gncancnaac ggtacttgtg gtntttaanc cataaacaat tccgcttcgg gaaaaacatg 540
W--> 287 ccancntggg gtttcttca ctnggttang ggcnnggtgc cccacccca atccnnggtn 600
W--> 288 gtcaantaat cccaaggcn nantgncntt ttaaacaaa 639
291 <210> SEQ ID NO: 3
292 <211> LENGTH: 686
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
298     human rhodopsin adRP mutant sequence
300 <220> FEATURE:
301 <221> NAME/KEY: modified_base
302 <222> LOCATION: (1)..(3)
303 <223> OTHER INFORMATION: a, c, g, or t

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/155,708D

DATE: 03/09/2006
 TIME: 14:19:58

Input Set : A:\OPT003.APP

Output Set: N:\CRF4\03092006\I155708D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 7,10,20,21,22,33,38,79,454,478,525,542,563,570,573,589,594
 Seq#:1; N Pos. 597
 Seq#:2; N Pos. 3,4,5,6,21,31,34,104,326,333,366,376,392,398,430,482,485,487
 Seq#:2; N Pos. 503,509,544,546,563,569,574,596,600,606,620,621,623,626,628
 Seq#:3; N Pos. 1,2,3,10,19,31,49,387,414,427,501,508,524,549,561,563,572
 Seq#:3; N Pos. 606,617,628,632,656,665,670,680,682,683
 Seq#:4; N Pos. 2,5,32,39,87,135,137,142,178,254,298,305,353,358,395,403,410
 Seq#:4; N Pos. 414,435,469,472,496,497,511,516,527,548,559,569,572,583,609
 Seq#:4; N Pos. 617,629,630,632,641,645,649,651,654,655,656,657,658,659,660
 Seq#:4; N Pos. 661,662,663,664,666,667,668,669,672,674,680,707,709,721,723
 Seq#:4; N Pos. 731,739,742,743,744,745,747,765,766,772,773,775,780,781,782
 Seq#:4; N Pos. 784,785,786
 Seq#:5; N Pos. 2,11,15,19,22,25,36,42,44,67,135,145,147,162,304,307,312,365
 Seq#:5; N Pos. 369,391,397,408,422,456,482,492,526,539,548,571,590,598,636
 Seq#:5; N Pos. 640,653,662
 Seq#:7; N Pos. 1,2,3,4,11,25,27,29,33,34,38,40,46,91,238,240,408,413,438
 Seq#:7; N Pos. 448,452,454,513,564,586
 Seq#:8; N Pos. 7,8,19,27,49,52,55,57,79,81,193,212,236,240,378,379,407,415
 Seq#:8; N Pos. 417,425,441,448,464,469,478,486,500,504,509,515,524,556,566
 Seq#:8; N Pos. 592,595,613,633,638,641,647
 Seq#:9; N Pos. 1,2,11,16,37,52,127,251,287,297,307,310,325,349,354,358,369
 Seq#:9; N Pos. 395,397,413,426,441,452,465,466,468,469,471,479,489,491,498
 Seq#:9; N Pos. 500,501,505,507,514,518,538,542,568,573,588,599,613,614,617
 Seq#:9; N Pos. 618,626,653,654,655,656,659,673,680
 Seq#:10; N Pos. 7,18,85,179,270,273,360,404,408,411,412,418,426,434,437,445
 Seq#:10; N Pos. 447,448,449,450,451,452,453,454,455,456,457,458,459,460,461
 Seq#:10; N Pos. 462,463,464,465,466,467,468,469,470,471,472,473,474,475,476
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 Seq#:10; N Pos. 492,493,494,495,496,497,498,499,500,501,502,503,504,505,506
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 Seq#:10; N Pos. 522,523,524,525,526,527,528,529,530,531,532,533,534,535,536
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 Seq#:10; N Pos. 552,553,554,555,556,557,558,559,560,561,562,563,564,565,566
 Seq#:10; N Pos. 567,568,569,570,571,572,573,574,575,576,577,578,579,580,581
 Seq#:10; N Pos. 582,583,584,585,586,587,588,589,590,591,592,593,594,595,596
 Seq#:10; N Pos. 597,598,599,600,601,602,603,604,605,606,607,608,609,610,611
 Seq#:10; N Pos. 612,613,614,615,616,617,618,619,620,621,622,623,624,625,626
 Seq#:10; N Pos. 627,628,629,630,631,632,633,634,635,636,637,638,639,640,641
 Seq#:10; N Pos. 642,643,644,645,646,647,648,649,650,651,652,653,654,655,656
 Seq#:10; N Pos. 657,658,659,660,661,662,663,664,665,666,667,668,669,670,671
 Seq#:10; N Pos. 672,673,674,675,676,677,678,679,680,681,682
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 Seq#:13; N Pos. 563,585,601
 Seq#:14; N Pos. 2,11,19,139,372,377,403,450,454,455,465,476,486,487,495,497

RAW SEQUENCE LISTING ERROR SUMMARY
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Seq#:14; N Pos. 498,512,520,525,527,528,530,531,534,535,536,537,538,539,542
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Seq#:14; N Pos. 571,573,575,577,578,579,582,583,584,585,586,588,589,593,594
Seq#:14; N Pos. 595,596,597,598,599,600,602,603,604,605,606,612,614,615,616
Seq#:14; N Pos. 617,619,623,624,626,627,628,629,632,634,635,636,637,638,639
Seq#:14; N Pos. 641,642,643,645,646,647,648,649,650,651,652,653,655,658,659
Seq#:14; N Pos. 665,666,667,668,670,671,672,673,674,675,676,678,680
Seq#:15; N Pos. 1,2,6,14,25,27,44,50,53,54,97,153,293,311,312,341,368,373
Seq#:15; N Pos. 400,430,433,436,439,446,456,469,474,475,479,480,487,494,496
Seq#:15; N Pos. 501,505,521,522,525,527,532,534,537,545,546,551,552,553,559
Seq#:15; N Pos. 584,586,590,595,604,609,626,630,633,635,637,644,645,646,647
Seq#:15; N Pos. 650,653,657,659,661,666,669,671,673,674,678
Seq#:16; N Pos. 1,4,7,15,25,33,34,41,122,153,251,308,311,346,366,416,459
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Seq#:16; N Pos. 792,795,802,803,804,805
Seq#:17; N Pos. 13,54,67,95,140,183,246,266,296,302,343,356,402,435,444,518
Seq#:17; N Pos. 538,541,548,554,560,565,589,590,598,611,613,623,627,628,629
Seq#:17; N Pos. 630,631,632,633,634,635,636,637,641,644,646,653,659,662,664
Seq#:17; N Pos. 667,683,686,688,700,720,741,742,754,758,760,762,763,768,777
Seq#:17; N Pos. 778,779,783,790
Seq#:18; N Pos. 1,7,8,12,15,20,34,35,44,46,74,301,327,361,366,386,459,473
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L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:420
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:480
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:540
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:60
L:283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:300
L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:360
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:420
L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:480
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:540
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:600
L:421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:360
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:420
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:480
L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:540
L:431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:600
L:432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:660
L:725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:60
L:727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:120
L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:240
L:730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:300
L:731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:360
L:732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:420
L:733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:480
L:734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:540
L:735 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:600
L:736 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:660
L:737 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:720
L:738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:780
L:931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:932 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60
L:933 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:120
L:936 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:300
L:937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:360
L:938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:420
L:939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:480
L:940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:540
L:941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:600
L:942 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:660
L:1070 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:1071 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:60
L:1073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:180
L:1076 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:360
L:1077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:420

VERIFICATION SUMMARY

DATE: 03/09/2006

PATENT APPLICATION: US/09/155,708D

TIME: 14:19:58

Input Set : A:\OPT003.APP

Output Set: N:\CRF4\03092006\I155708D.raw

L:1078 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:480
L:1079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:540
L:1283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:1284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:60
L:1286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:180
L:1289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:360
L:1290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:420
L:1291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:480
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:540
L:1293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:600
L:1537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:1539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:120
L:1541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:240
L:1542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:300
L:1543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:360
L:1544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:420
L:1545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:480
L:1546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:540
L:1547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:600
L:1548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:660
L:1641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:1642 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:60
L:1643 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:120
L:1645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:240
L:1646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:300
L:1647 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:360
L:1648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:420
L:1649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:480
L:1650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:540
L:1651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:600
L:1652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:660
L:1786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:1787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:60
L:1792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:360
L:1793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:420
L:1794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:480
L:1795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:540
L:1796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:600
L:2054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:2056 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:120
L:2060 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:360
L:2061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:420
L:2062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:480
L:2063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:540
L:2064 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:600
L:2065 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:660
L:2383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:2384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:60
L:2385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:120

VERIFICATION SUMMARY

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PATENT APPLICATION: US/09/155,708D

TIME: 14:19:58

Input Set : A:\OPT003.APP

Output Set : N:\CRF4\03092006\I155708D.raw

L:2387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:240
L:2388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:300
L:2389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:360
L:2390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:420
L:2391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:480
L:2392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:540
L:2393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:600
L:2394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:660
L:2612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:2614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:120
L:2616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:240
L:2617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:300
L:2618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:360
L:2619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:420
L:2620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:480
L:2621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:540
L:2622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:600
L:2623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:660
L:2624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:720
L:2625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:780
L:2888 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:2889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:60
L:2890 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:120
L:2891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:180
L:2892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:240
L:2893 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:300
L:2894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:360
L:2895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:420
L:2896 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:480
L:2897 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:540
L:2898 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:600
L:2899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:660
L:2900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:720
L:2901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:780
L:3034 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:3035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:60
L:3039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:300
L:3040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:360
L:3041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:420
L:3042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:480
L:3043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:540
L:3044 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:600
L:3045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:660